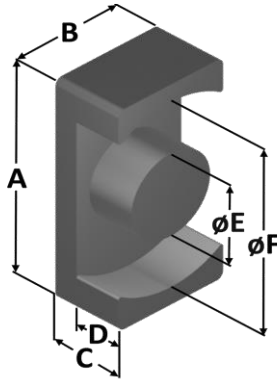


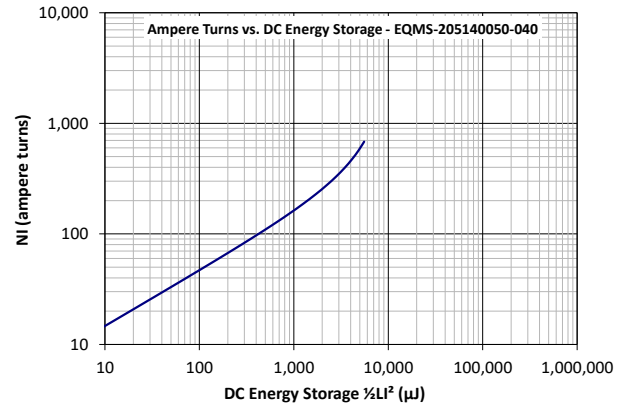
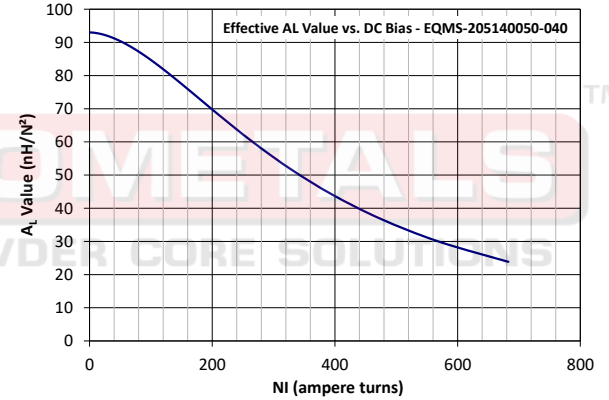
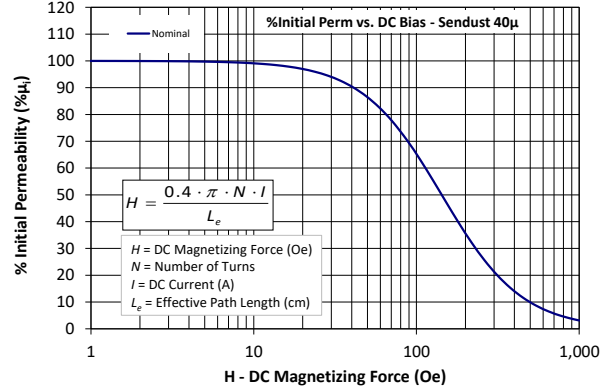
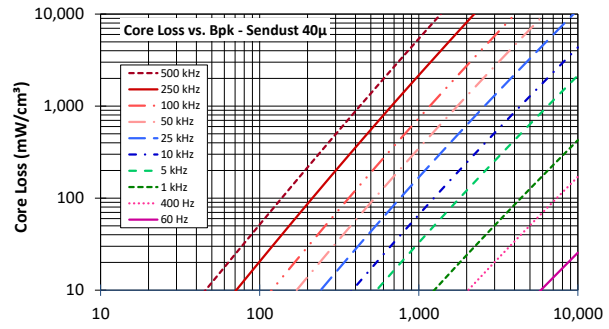


Part Number: **EQMS-205140050-040**

Revision: 2023-Dec-06



A	20.50 ± 0.30 mm	0.807 ± 0.012 in
B	14.00 ± 0.20 mm	0.551 ± 0.008 in
C	5.000 ± 0.203 mm	0.197 ± 0.008 in
D	2.300 mm (min.)	0.091 in (min.)
E	8.800 ± 0.20 mm	0.346 ± 0.008 in
F	17.80 mm (min.)	0.701 in (min.)
Mass	(approximate)	5.0 grams/half
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.608 cm ²
	L _e - Eff. Mag. Path Length	3.28 cm
	V _e - Eff. Core Volume	1.99 cm ³
	W _A - Min. Eff. Window Area	0.202 cm ²
	s _a - Surface Area	13.3 cm ²
Inductance	μ _i (reference)	40
	A _i value (nominal)	93 nH/N ²
	Test Winding	N=10, #26 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	0.027 V
Core Loss	A _i tolerance	±12%
	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.000E+06, b=4.962E+08, c=8.098E+06, d=8.549E-15	
	B _{pk}	1000 G
	frequency	50 k Hz
DC Saturation	Core Loss (nominal)	347 mW/cm ³
	Core Loss (maximum)	400 mW/cm ³
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and: a=1.000E-02, b=1.581E-06, c=1.763, d=0.000	
	H _{0c}	100 Oe
Coating/Pkg	Percent Initial Perm.(nom.)	65.3 %
	Percent Initial Perm.(min.)	57.7 %
	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
Winding Table	Package Quantity	1,008 Halves/Box
	Wire Size	AWG 20 22 24 26 28 30 32 34 36 38 40
	mm	0.800 0.630 0.500 0.400 0.315 0.250 0.200 0.160 0.125 0.100 0.080
	Full Turns	15 23 36 56 86 133 206 319 494 764 1,183
	Rdc(Ω)	20.9 m 50.9 m 126.6 m 313.2 m 764.9 m 1.9 4.6 11.4 28.1 69.1 170.2



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	mm	0.800 0.630 0.500 0.400 0.315 0.250 0.200 0.160 0.125 0.100 0.080
Full Winding	Turns	15 23 36 56 86 133 206 319 494 764 1,183
	Rdc(Ω)	20.9 m 50.9 m 126.6 m 313.2 m 764.9 m 1.9 4.6 11.4 28.1 69.1 170.2

Handling and Storage: Cores should be stored in the original unopened packaging between -10°C and +50°C and less than 60% relative humidity. After the original packaging is opened, the cores should be stored between -8°C and +25°C less than 30% relative humidity. Gloves should be used when handling uncoated cores. The cores should also be sheltered from rain, moisture, salt water, salt air, plasters, ashes, sulfur, sulfur dioxide, ammonia sulfates, soils, acids, metals shavings, and solvents.

Operating Temperature: Cores can be used continuously at operating temperatures between -60°C and +200°C.

RoHS 2.0, REACH and ISO (TS16949, ISO 9001, ISO 14001) compliant. Statements available for download at www.micrometalsapc.com.

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